

ABSTRACT OF THE DISCLOSURE

A liquid crystal display apparatus has a light pipe
for emitting an incident light coming from the light source
from a lower surface via a light emitting means formed
5 on an upper surface, a reflection type polarizer disposed
on the lower surface of the light pipe, the reflection
type polarizer dividing an incident natural light into
a circularly polarized reflected light and a transparent
light, and the reflected light being emitted thorough
10 the upper surface of the light pipe, and a liquid crystal
shutter disposed on the upper surface of the light pipe,
and having a liquid crystal cell and at least one sheet
of polarizer.